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Software reliability modeling by concatenating failure rate

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This paper appears in: Software Reliability Engineering, 1998. Proceedings. The Nintl Symposium on

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Meeting Date: 11/04/1998 - 11/07/1998

Location: Paderborn

INSPEC Accession Number:6104429 DOI: 10.1109/ISSRE.1998.730860 Posted online: 2002-08-06 22:05:55.0

Abstract

The concatenation of failure rate functions results in point process models that need not processes, or lack memory features of Poisson processes. Processes having a memory a compared to those that do not, and as a consequence provide a credible framework for trapredicting failure times. The purpose of the paper is to propose and describe a model for subsed on this paradigm. The proposed model is adaptive, can explain empirically observe outperforms the predictive ability of its competitors. The model and its inferential mechanis software to implement it with ease, is available

Index Terms Inspec

Controlled Indexing

Poisson distribution software quality software reliability

Non-controlled Indexing

<u>Poisson processes</u> <u>empirically observed phenomena</u> <u>failure rate concatenation</u> <u>functions</u> <u>failure times</u> <u>inferential mechanism</u> <u>point process models</u> <u>predictive</u> <u>software reliability modeling</u>

Author Keywords

Not Available

References

No references available on IEEE Xplore.

Citing Documents

Better reliability assessment and prediction through data clustering, Tian, J. Software Engineering, IEEE Transactions on
On page(s): 997- 1007, Volume: 28, Issue: 10, Oct 2002
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